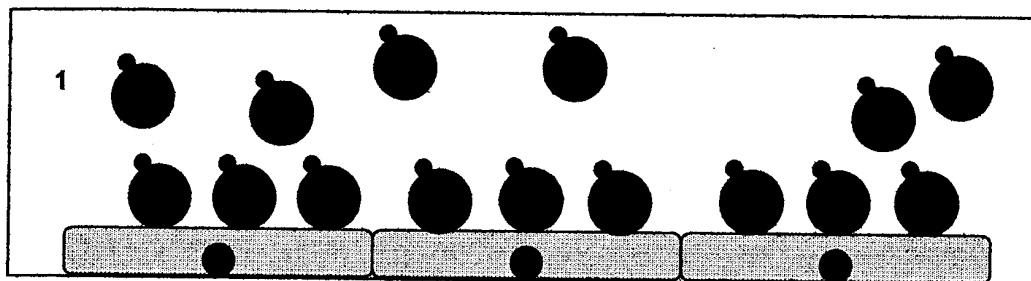


FITC-Tf

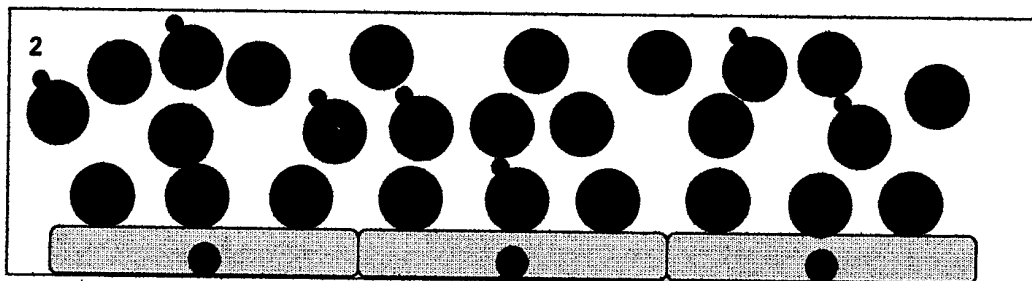
Tf

Cell

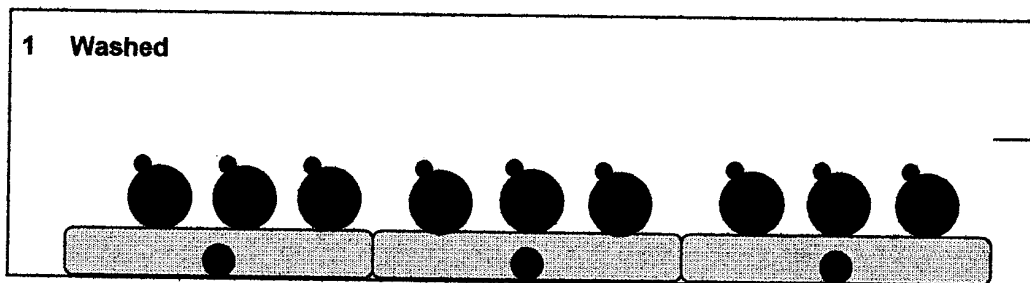
Figure 1a



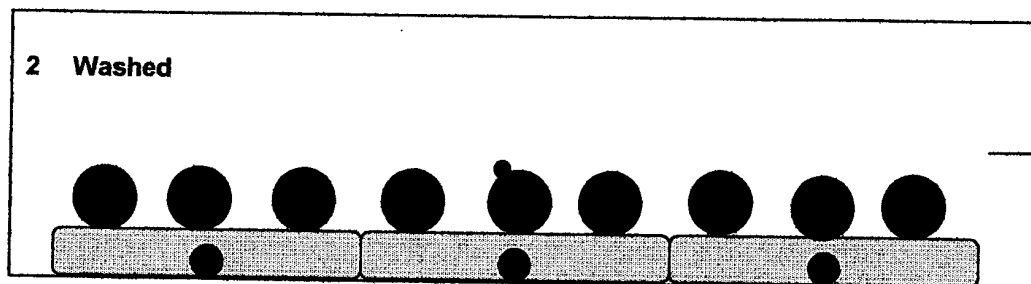
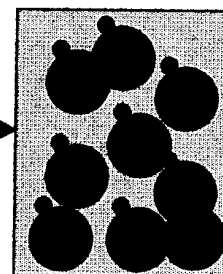
Cells +
FITC-Tf



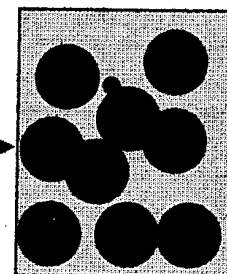
Cells +
FITC-Tf+
Tf excess



1 Washed



2 Washed

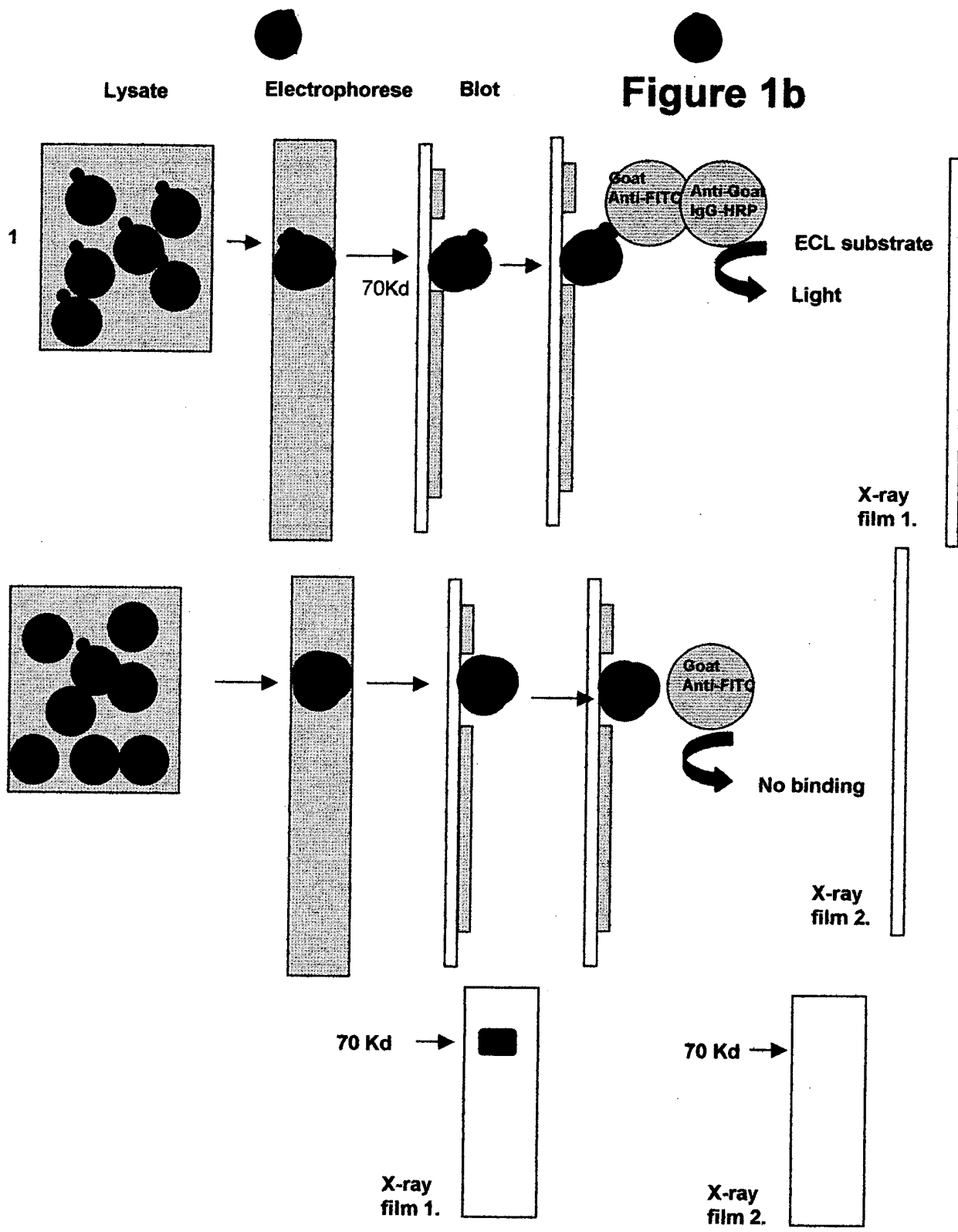


Lysates

Inventor: Philip Cavanaugh. Title: Method for the Detection and Measurement of Hapten-Conjugated Biological Binding Entities by Western and Dot Blot using Anti-Hapten Antibodies. Text: 28 pages total. Figures: 12 pages total.

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Inventor: Philip Cavanaugh. **Title:** Method for the Detection and Measurement of Hapten-Conjugated Biological Binding Entities by Western and Dot Blot using Anti-Hapten Antibodies. Text: 28 pages total. Figures: 12 pages total.

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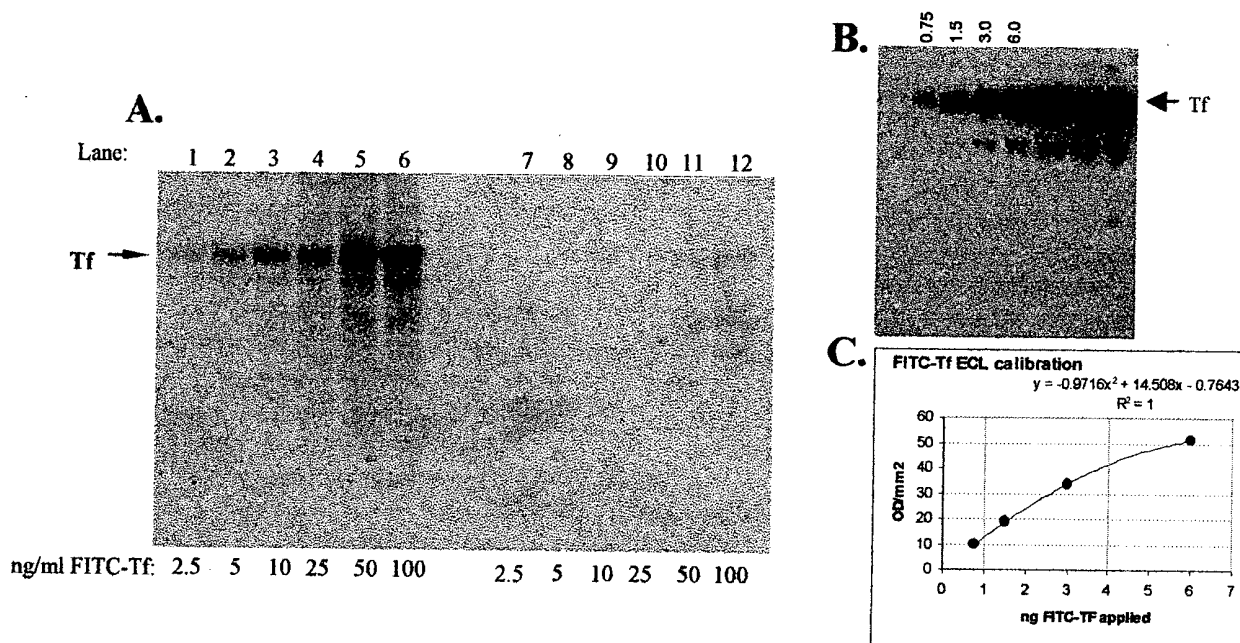


Figure 2. A. Measurement of FITC-transferrin (FITC-Tf) binding to MTLn2/TfR cells. Cells at 50–60 % confluency growing in 12 well plates were serum-starved, then treated at 4 C with increasing levels of FITC-Tf. After 2h, cells were washed, lysed, and equal cell equivalents were electrophoresed, blotted, incubated with goat anti-FITC, then with anti-goat-HRP and an HRP ECL substrate. The blot was then analyzed using the BIO-RAD fluor S Multiimager. Lanes 1-6 = lysates from cell exposed to the concentration of FITC-TF listed below the blot. Lanes 7-12 = lysates from cells treated as in 1-6, but also with a 200-fold excess of unconjugated Tf. B. Results from a blot treated as in A but loaded with pure FITC-TF standards in the amounts (in ng) indicated on the top. C. Analysis of the bands from B, indicating the type of standard curves achievable.

Inventor: Philip Cavanaugh. **Title:** Method for the Detection and Measurement of Hapten-Conjugated Biological Binding Entities by Western and Dot Blot using Anti-Hapten Antibodies. **Text:** 28 pages total. **Figures:** 12 pages total.

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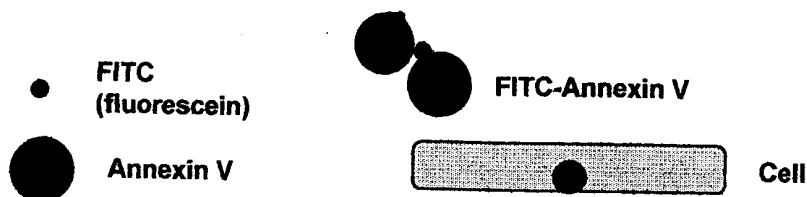
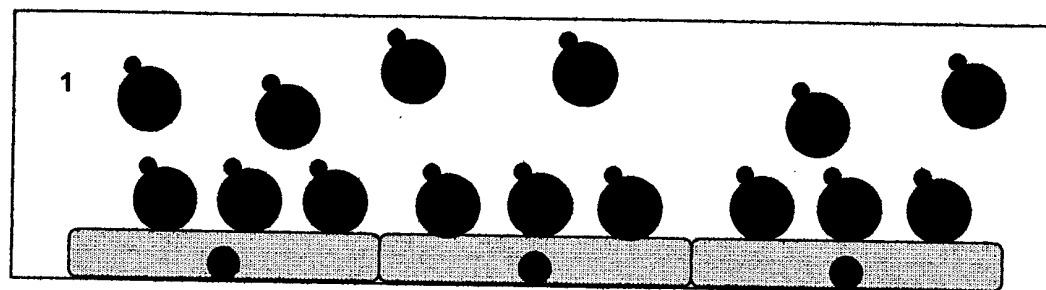
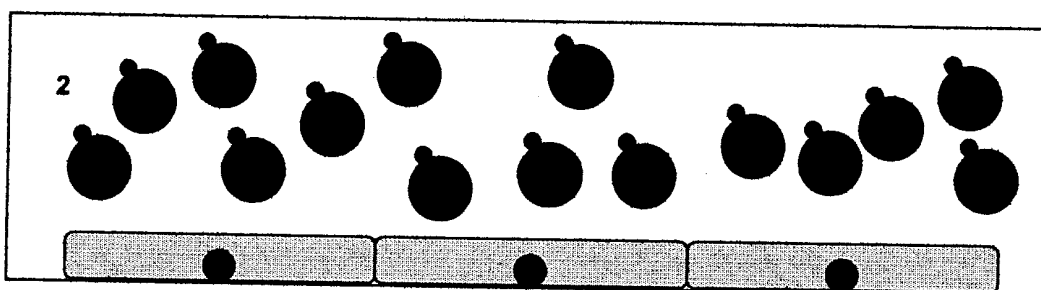


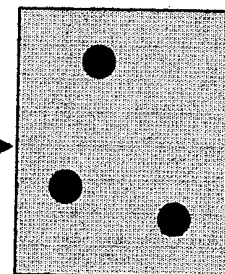
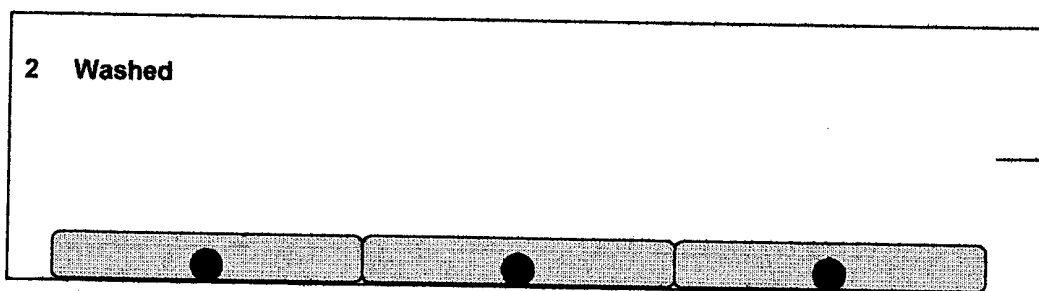
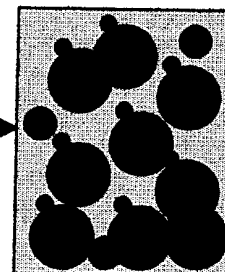
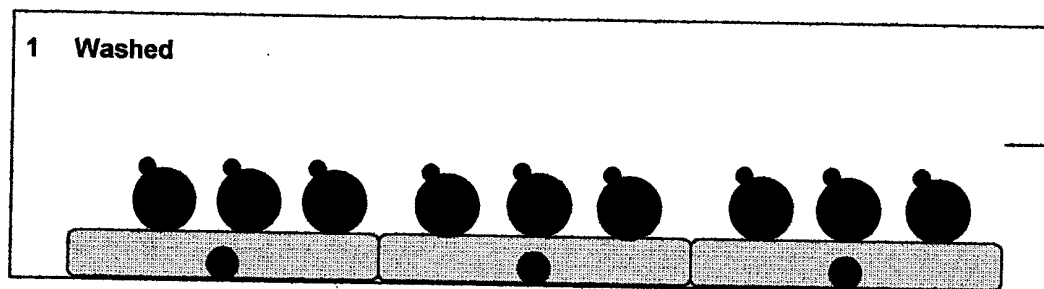
Figure 3a



1. Apoptotic
Cells +
FITC-Annexin V



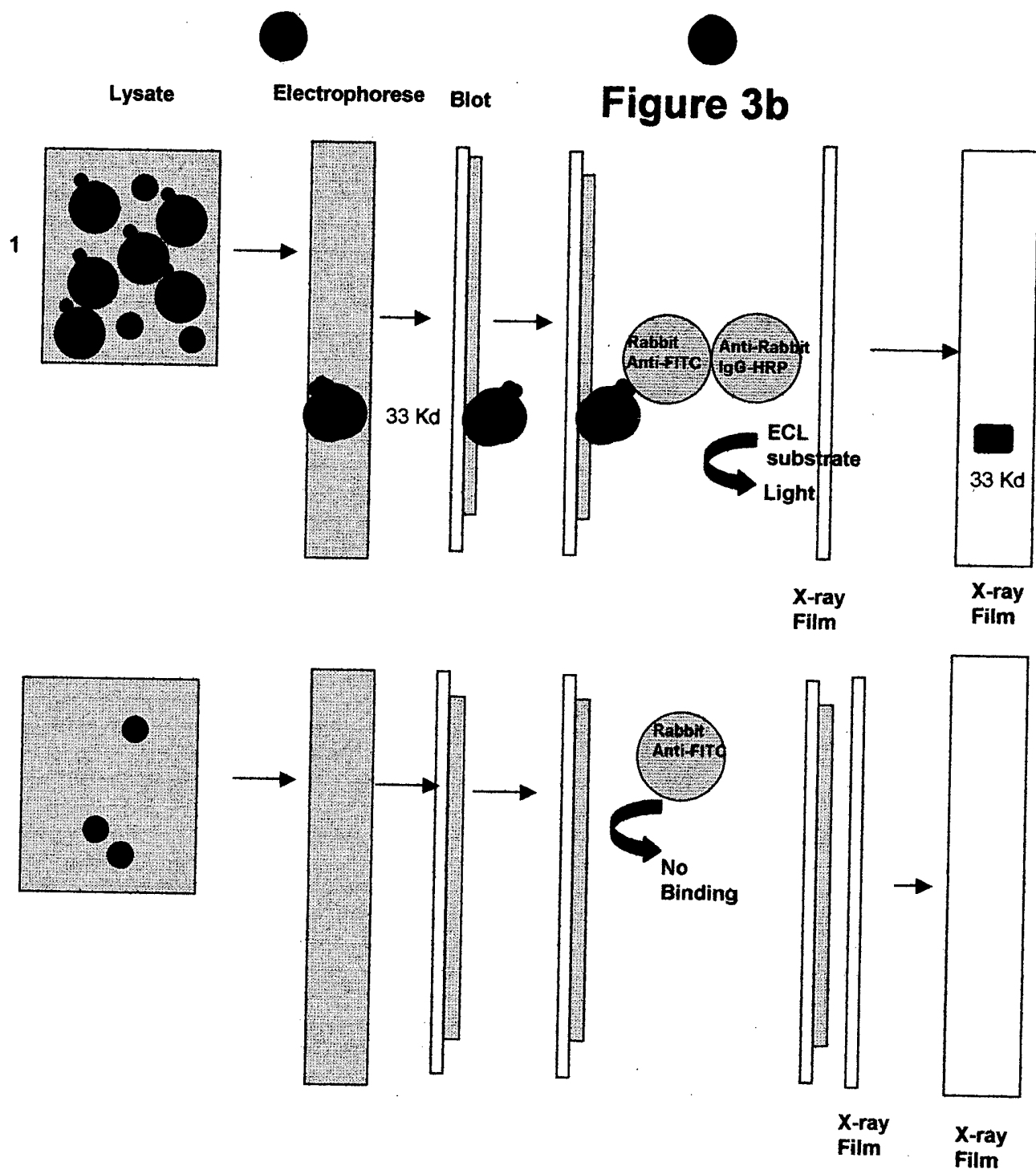
2. Normal
Cells +
FITC-Annexin V



Lysates

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Figure 4

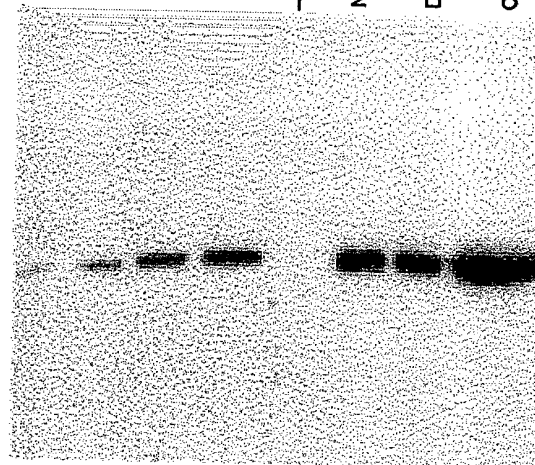
A.

FITC-Annexin V Standards:
amount applied to gel (ug):

0.5 1 2 4

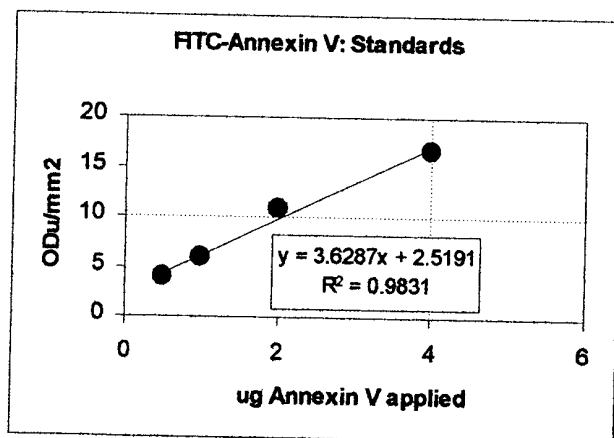
MTLn3 Cell Lysates:
(8ug cell protein per well)
Treatment:

None DMSO Camptothecin

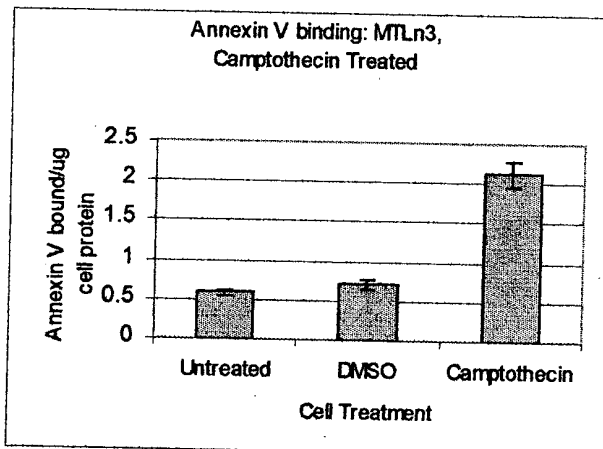


← Annexin V

B.



C.



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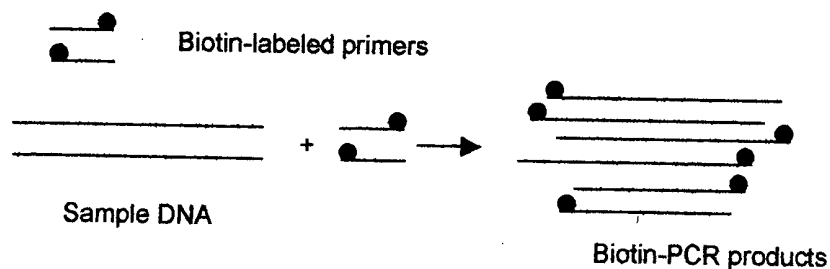
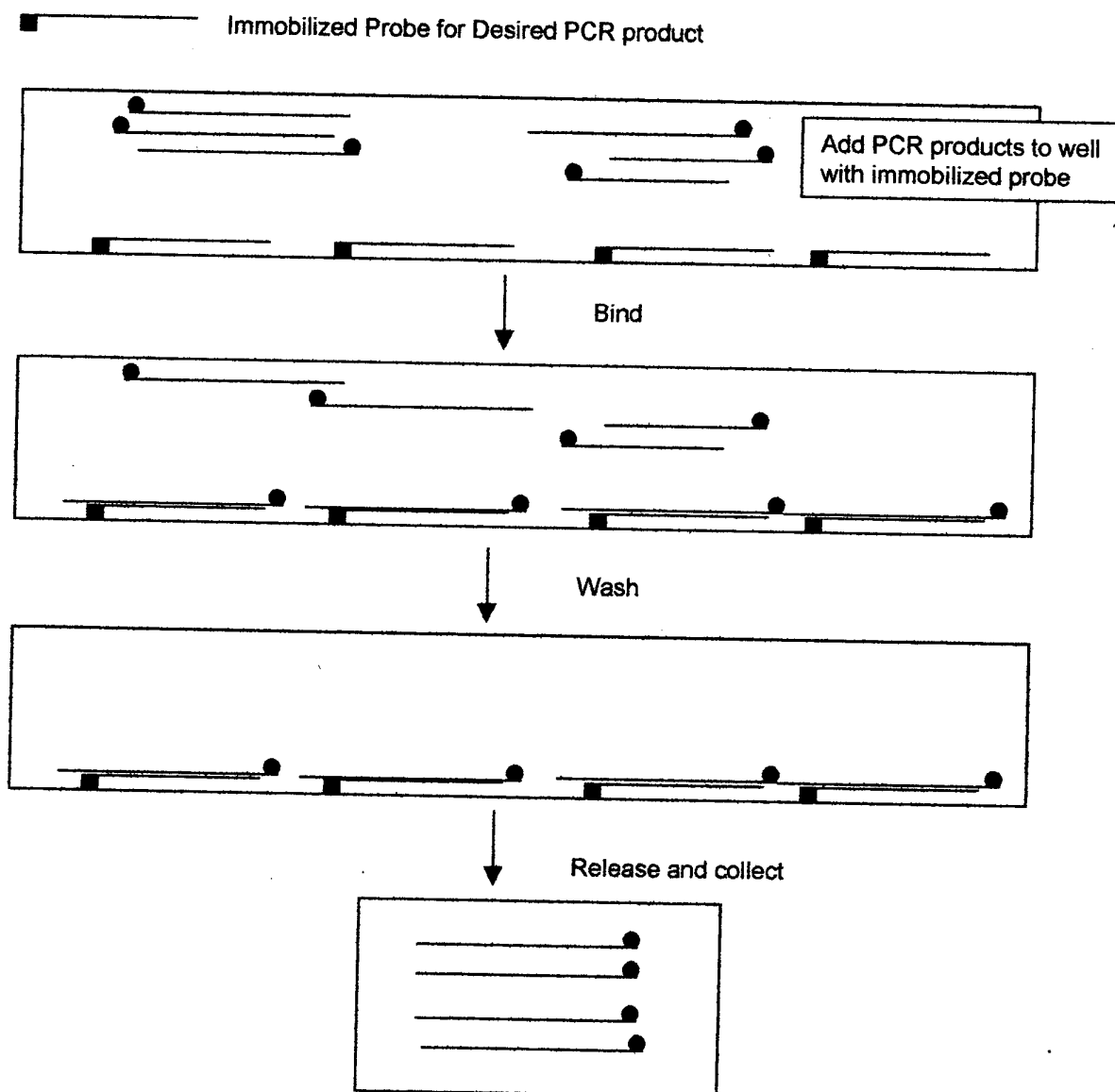


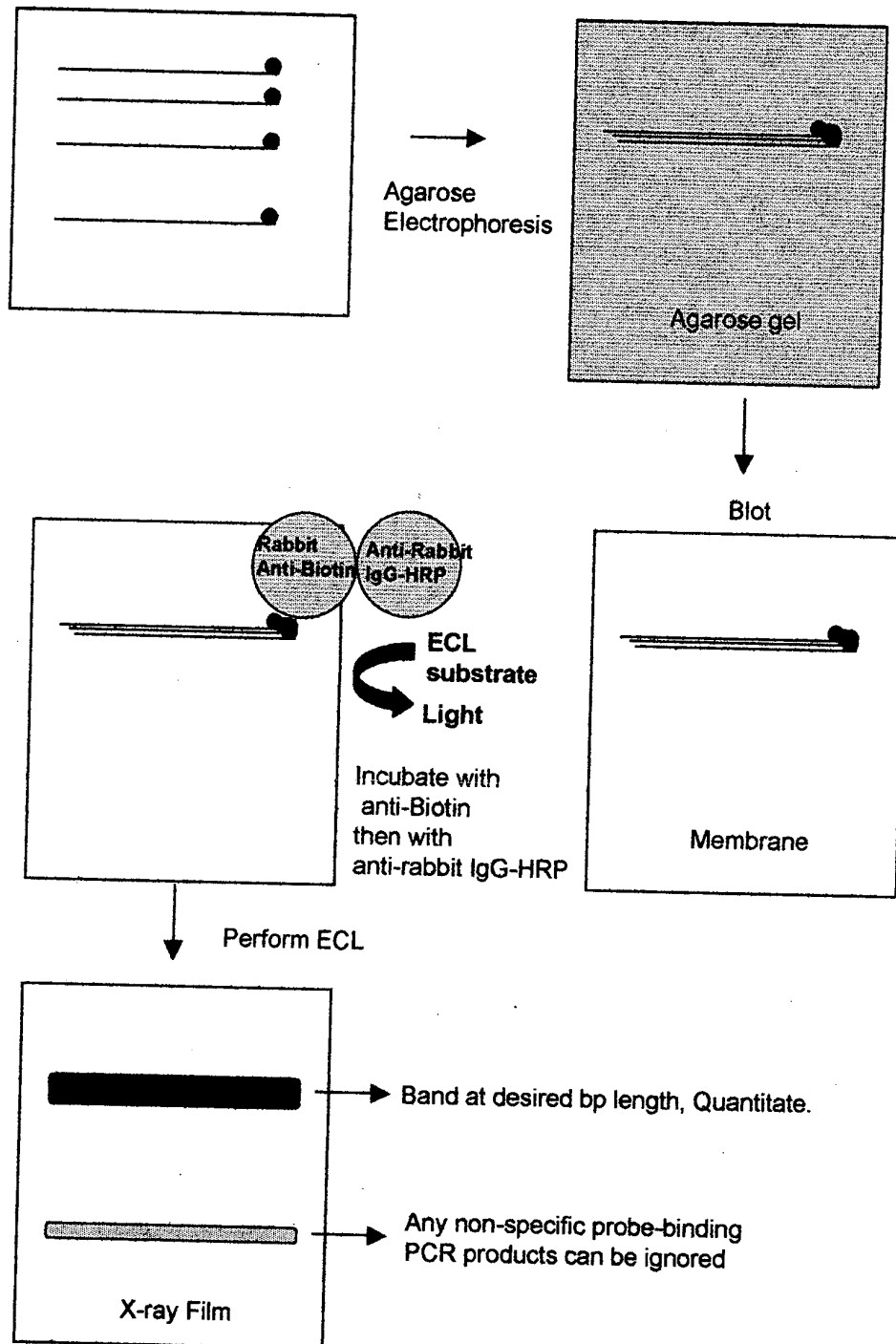
Figure 5a



Inventor: Philip Cavanaugh. **Title:** Method for the Detection and Measurement of Hapten-Conjugated Biological Binding Entities by Western and Dot Blot using Anti-Hapten Antibodies.
Text: 28 pages total. Figures: 12 pages total.

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Figure 5b

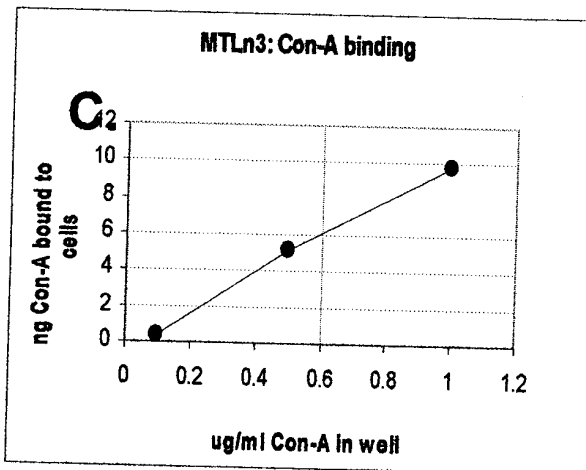
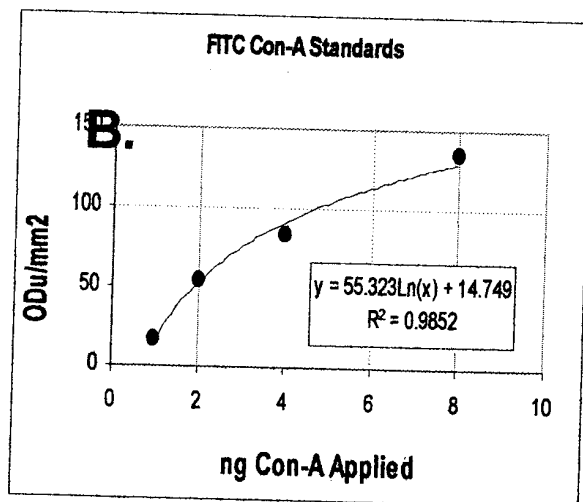
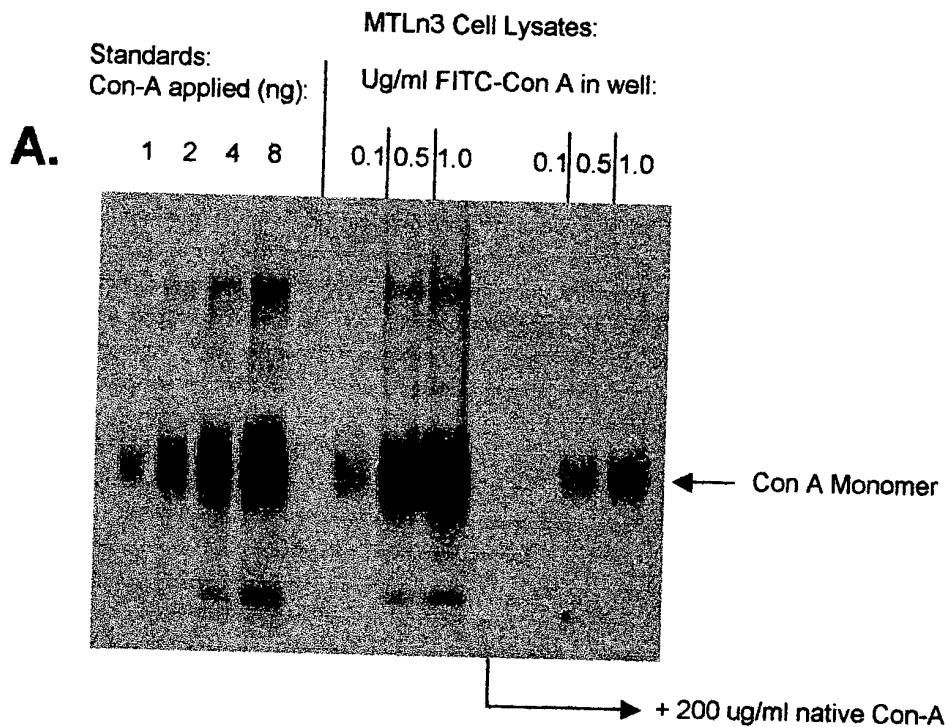


Inventor: Philip Cavanaugh. **Title:** Method for the Detection and Measurement of Hapten-Conjugated Biological Binding Entities by Western and Dot Blot using Anti-Hapten Antibodies. Text: 28 pages total. Figures: 12 pages total.

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Figure 6.

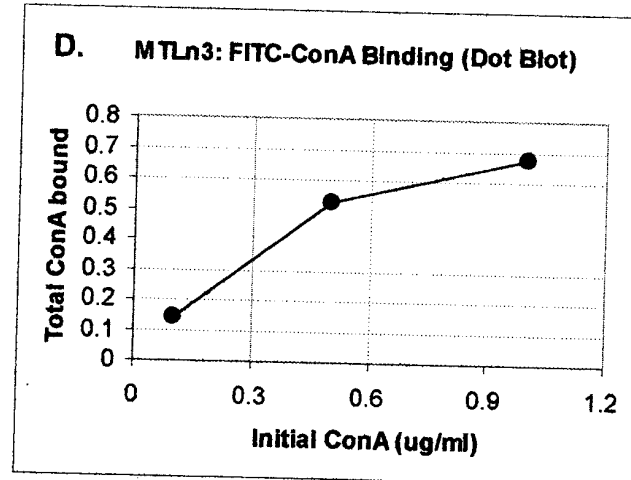
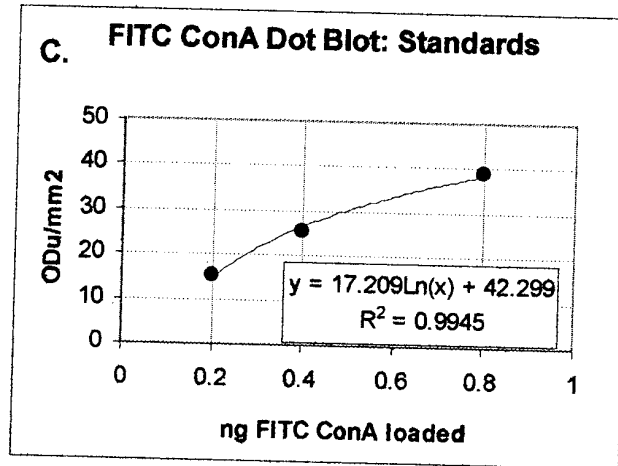
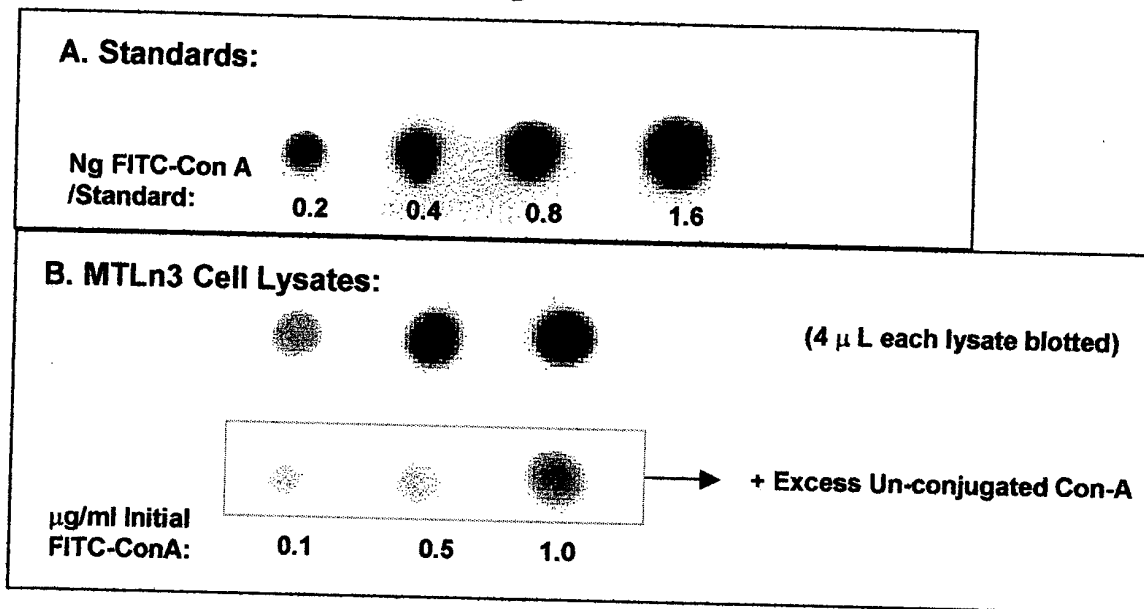


Inventor: Philip Cavanaugh. **Title:** Method for the Detection and Measurement of Hapten-Conjugated Biological Binding Entities by Western and Dot Blot using Anti-Hapten Antibodies. Text: 28 pages total. Figures: 12 pages total.

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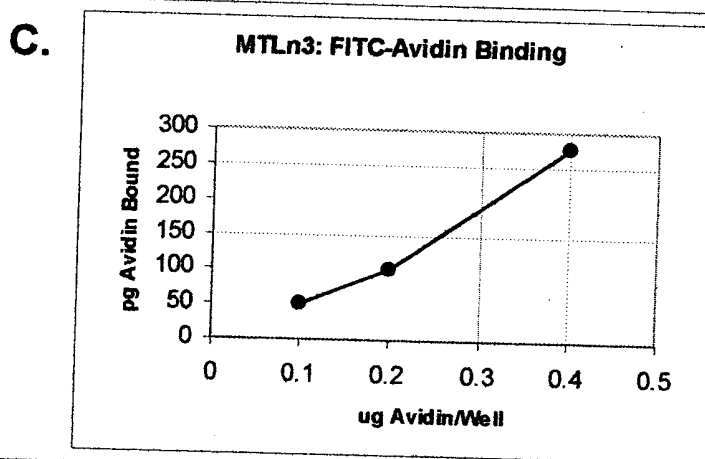
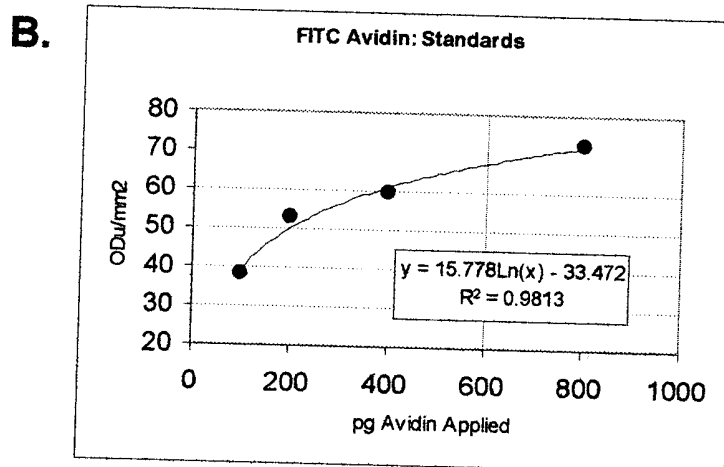
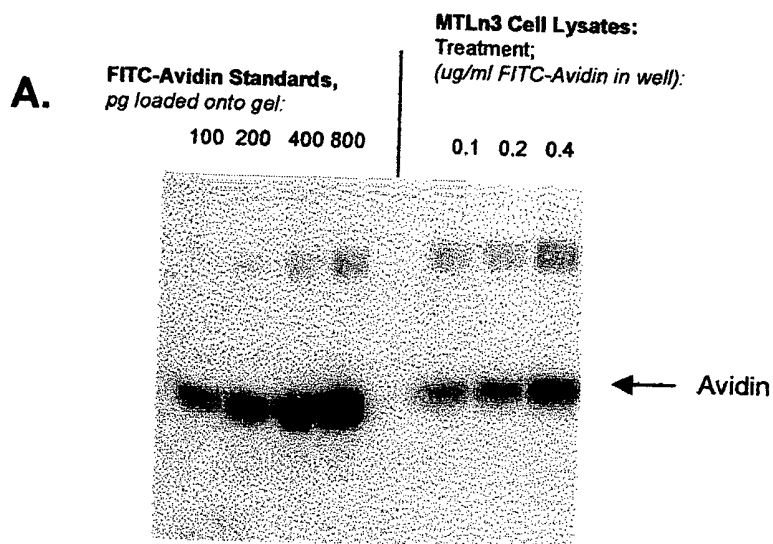
Figure 7



Inventor: Philip Cavanaugh. **Title:** Method for the Detection and Measurement of Hapten-Conjugated Biological Binding Entities by Western and Dot Blot using Anti-Hapten Antibodies. Text: 28 pages total. Figures: 12 pages total.

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Figure 8



Inventor: Philip Cavanaugh (Phone: 949-654-8979 or 313-538-2587). **Title:** Method for the Detection and Measurement of Hapten-Conjugated Biological Binding Entities by Western and Dot Blot using Anti-Hapten Antibodies. Text: 28 pages total. Figures: 12 pages total.

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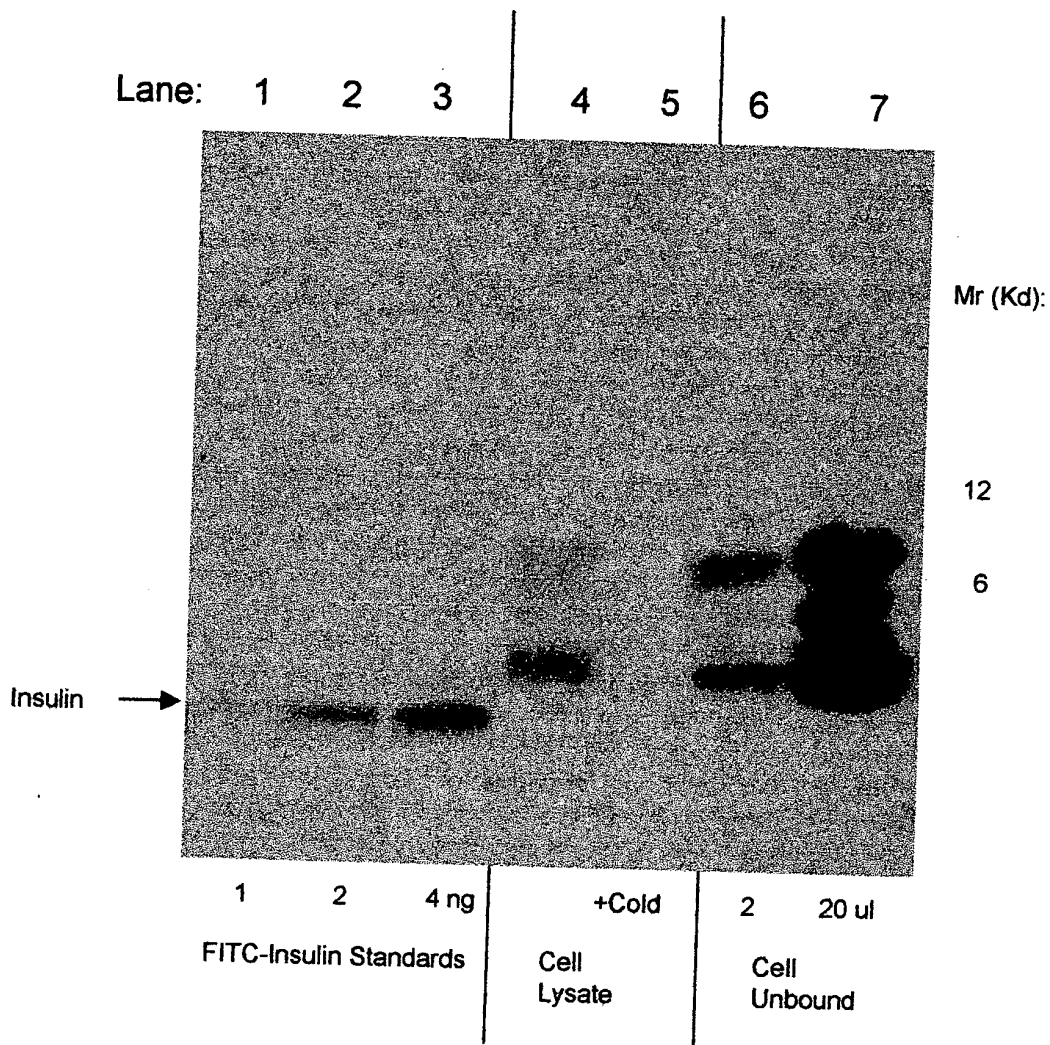


Figure 9: FITC-Insulin binding by K562 cells.

Inventor: Philip Cavanaugh (Phone: 949-654-8979 or 313-538-2587). **Title:** Method for the Detection and Measurement of Hapten-Conjugated Biological Binding Entities by Western and Dot Blot using Anti-Hapten Antibodies. Text: 28 pages total. Figures: 12 pages total.

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